

ABSTRACT OF THE DISCLOSURE

There are disclosed a polyelectrolyte comprising at least a styrenic polymer having a syndiotactic configuration and exhibiting an ion exchange capability, a polyelectrolyte membrane produced by forming the polyelectrolyte into a film, and a fuel cell using the polyelectrolyte membrane. The polyelectrolyte of the present invention is inexpensive and exhibits a good long-term stability, and is suitably used for fuel cells, production of common salt from sea water and recovery of acids from waste water.

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